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ABSTRACT

This book is a collection of classroom demonstrations in physics designed to present basic scientific ideas on a concrete level. The topics covered include: physical change and properties of matter; energy waves and energy forms; absorption of heat; radiant energy; vacuum bottles; kinetic molecular theory; states of matter; pressure of air; work from air pressure; properties of light; pinhole cameras; angles of incidence and reflection; mirror images; laws of refraction; motion picture effect; electromagnetic spectrum; frequency, wavelength, and amplitude; the light spectrum and color of objects; laser light; lenses; potential energy; speed, velocity, and friction; acceleration; Bernoulli's principle; Newton's third law of motion; magnets and poles; making a magnet; inducing magnetism; magnetic fields; magnetic compass; destroying a magnet; static electricity; electricity; electromagnets; Van de Graaff generator; series and parallel circuits; measuring voltage, current, and resistance; Ohm's Law; thermometers and temperature; calories/calorimeter; force and work; friction; center of gravity; levers, wheels, and axles; the inclined plane; gravity; weight and pressure; density and specific gravity; Archimedes' Principle; sound, decibels, and amplitude; transmission of sound; and resonance. (JRH)

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